
# Geographic Analysis of Data With National Geographic FieldScope

# What is NG FieldScope?

- Web based GIS tool
- Customized for student use
- Focus on mapping, data collection, and analysis
- Combination of user-generated and **professionally collected** data

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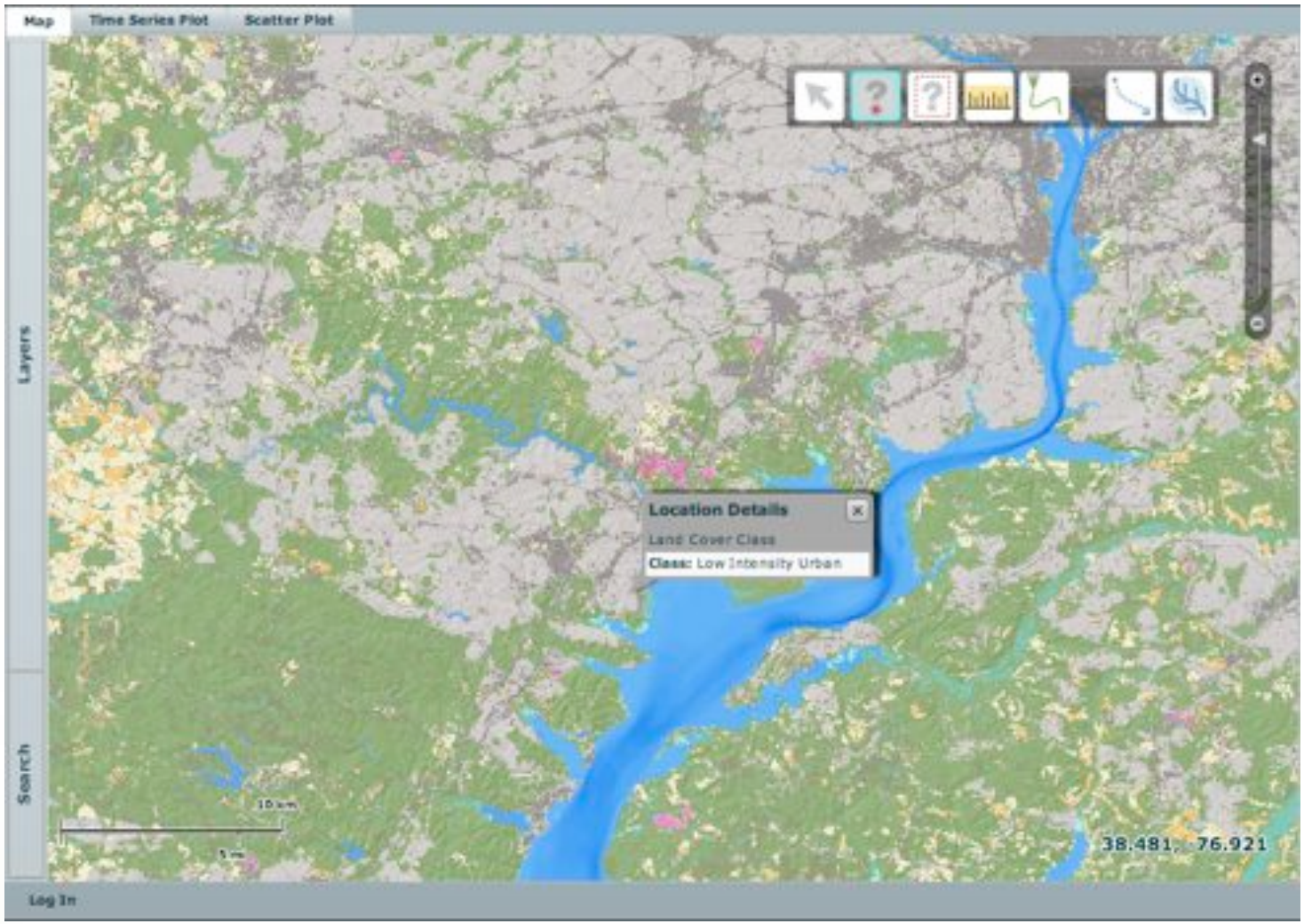
# Mapping: Point Query GIS Data

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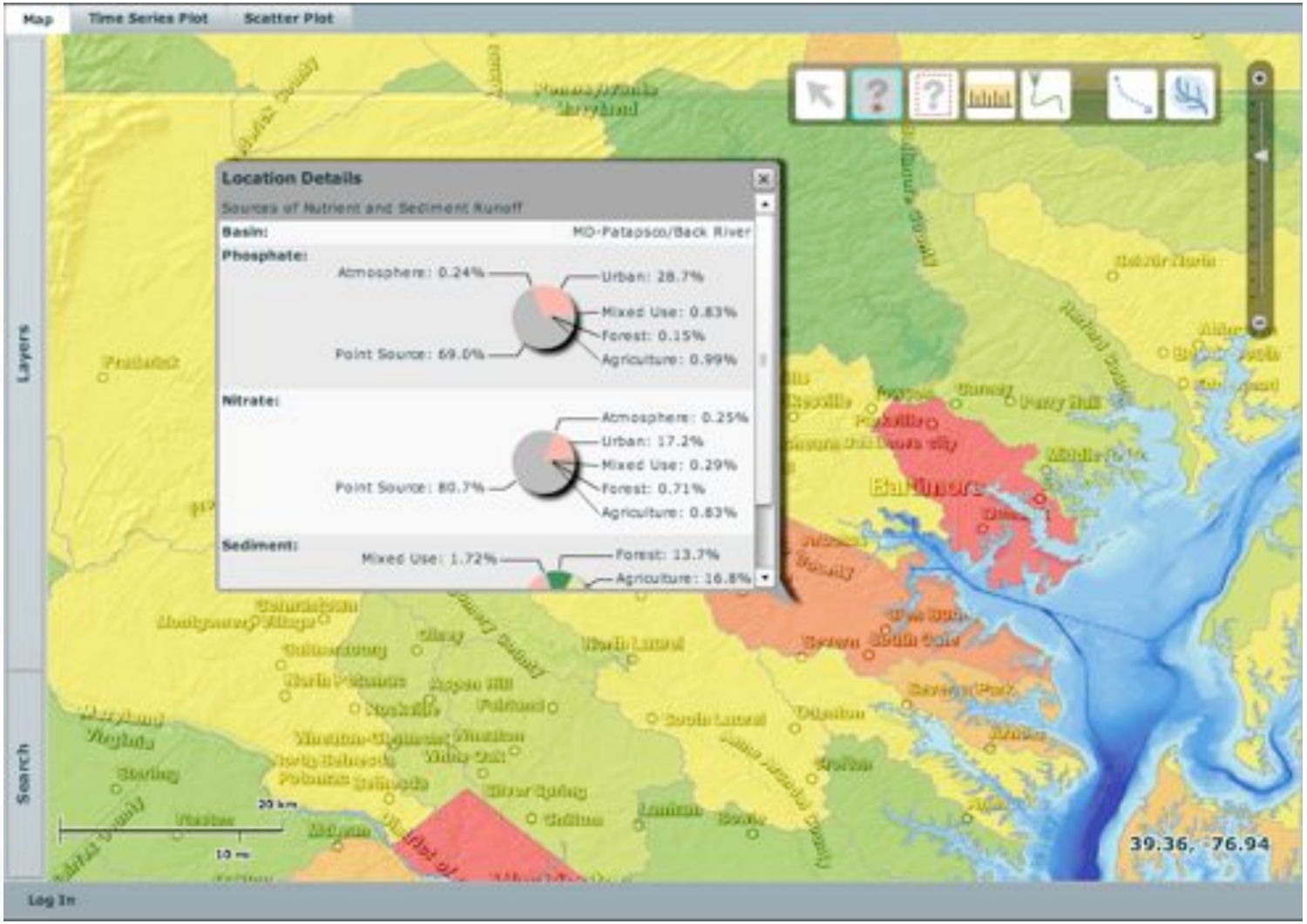
# Mapping: Complex Point Query

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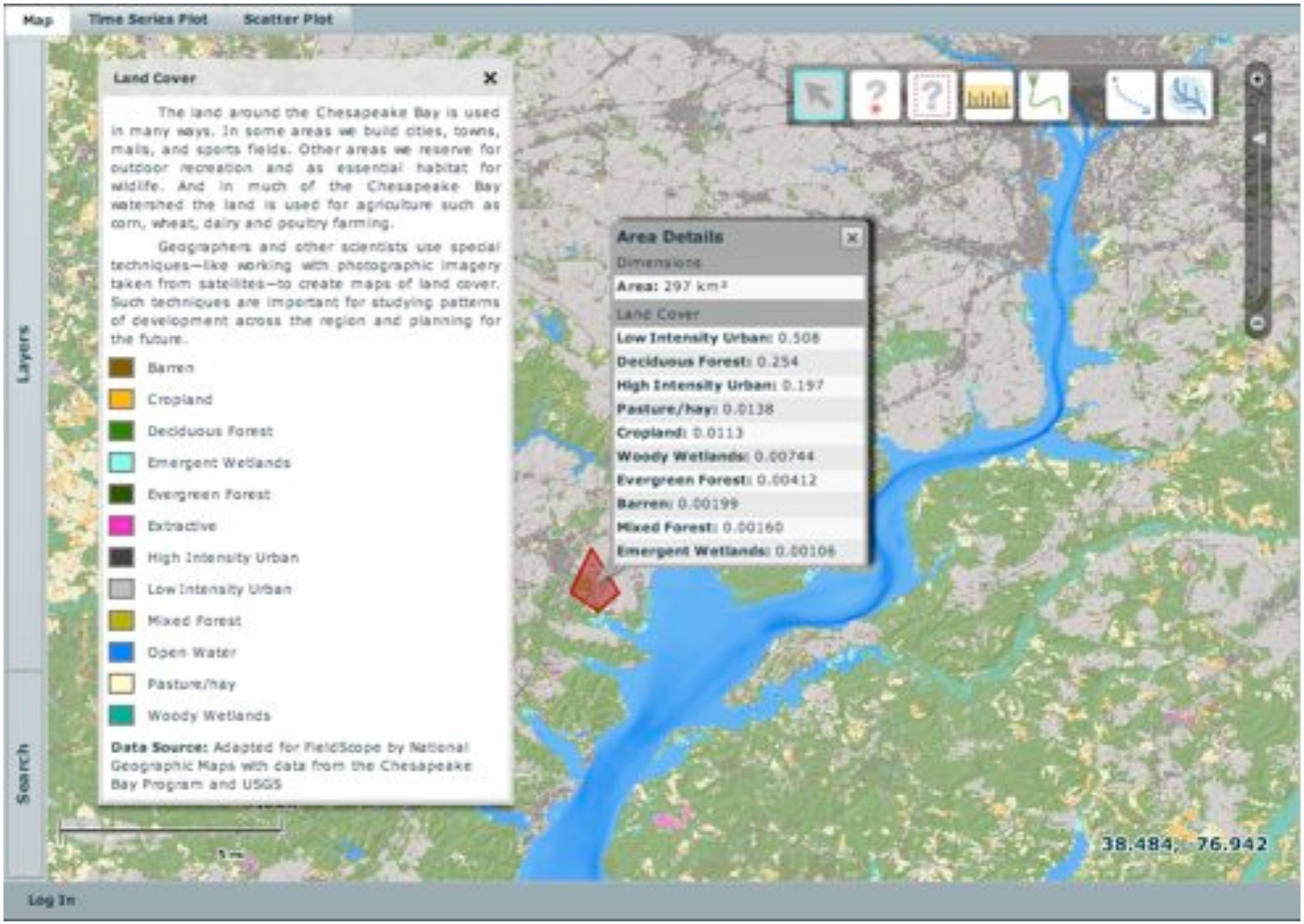
# Mapping: Polygon Query GIS Data

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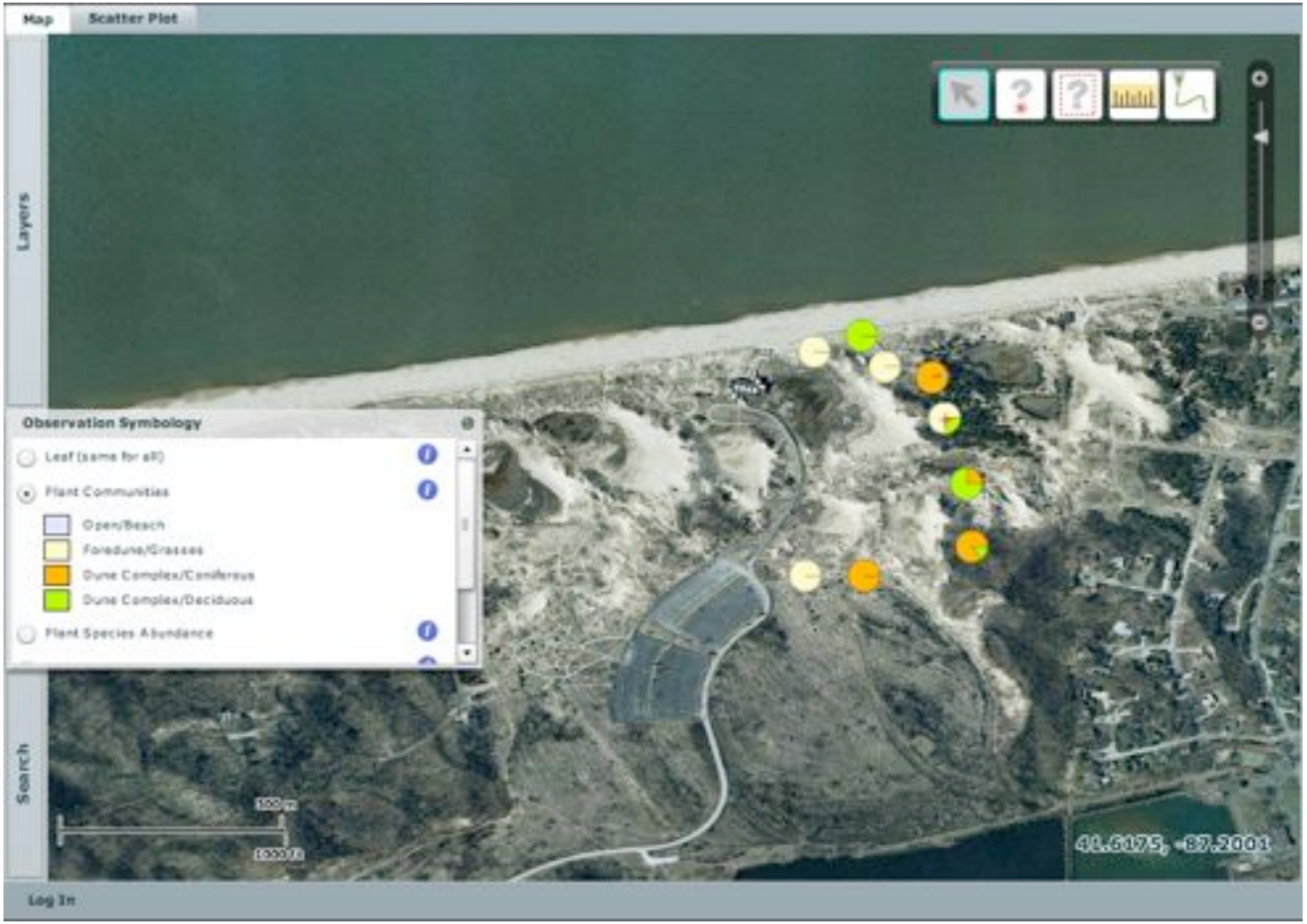
# Mapping: Point Symbology

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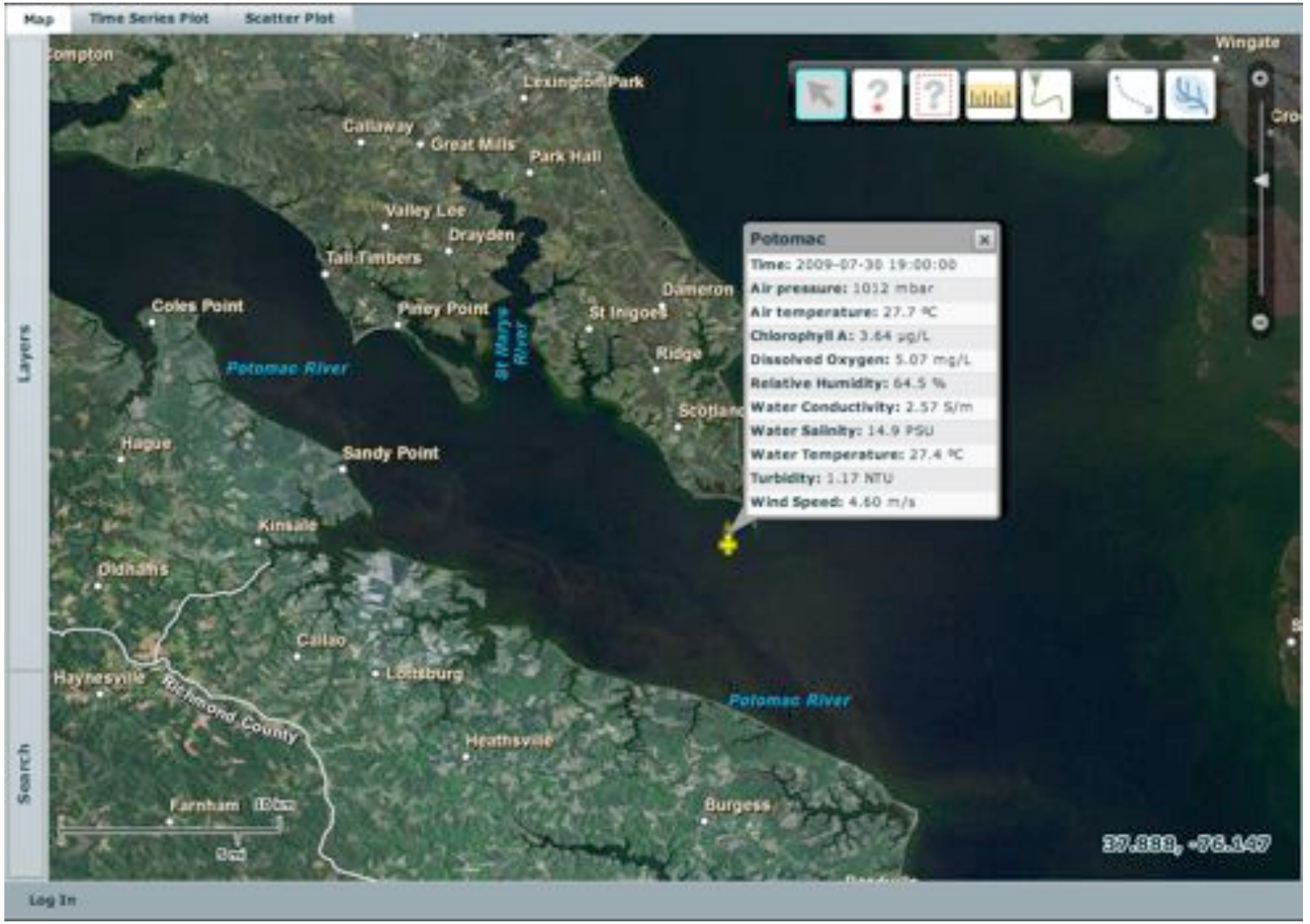
# Mapping: Real-Time Data

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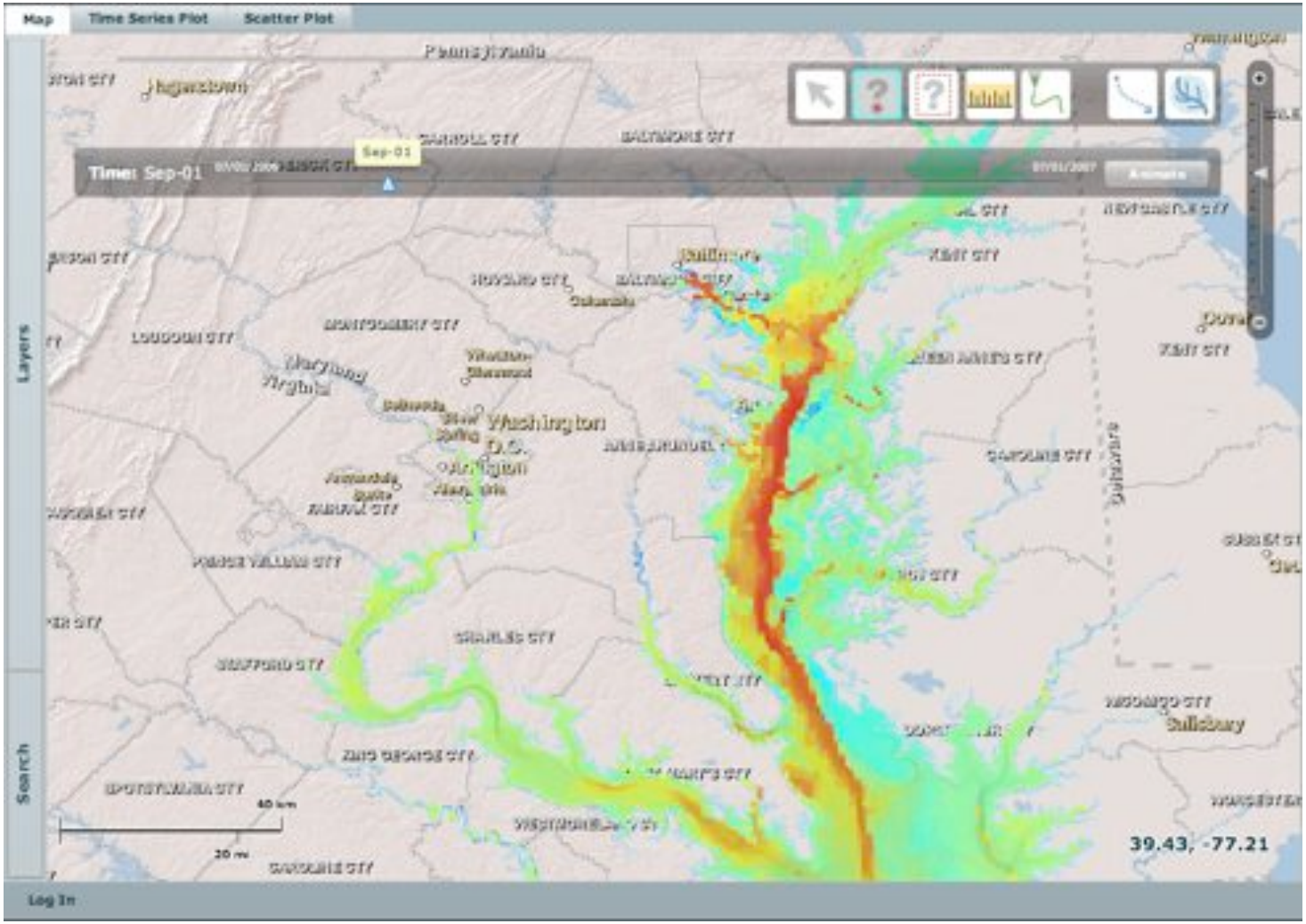
# Mapping: Time Series Data

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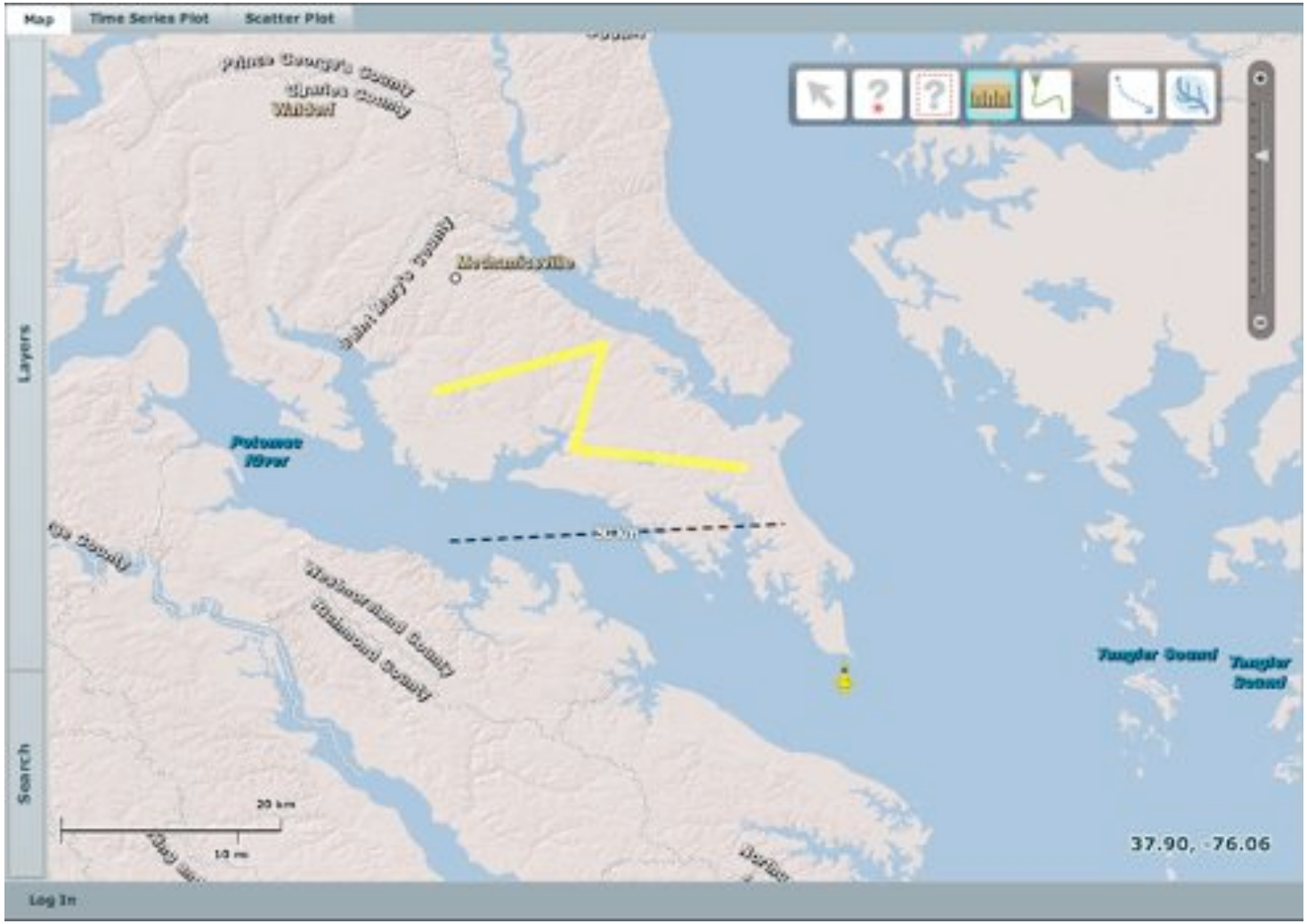
# Mapping: Drawing & Measuring

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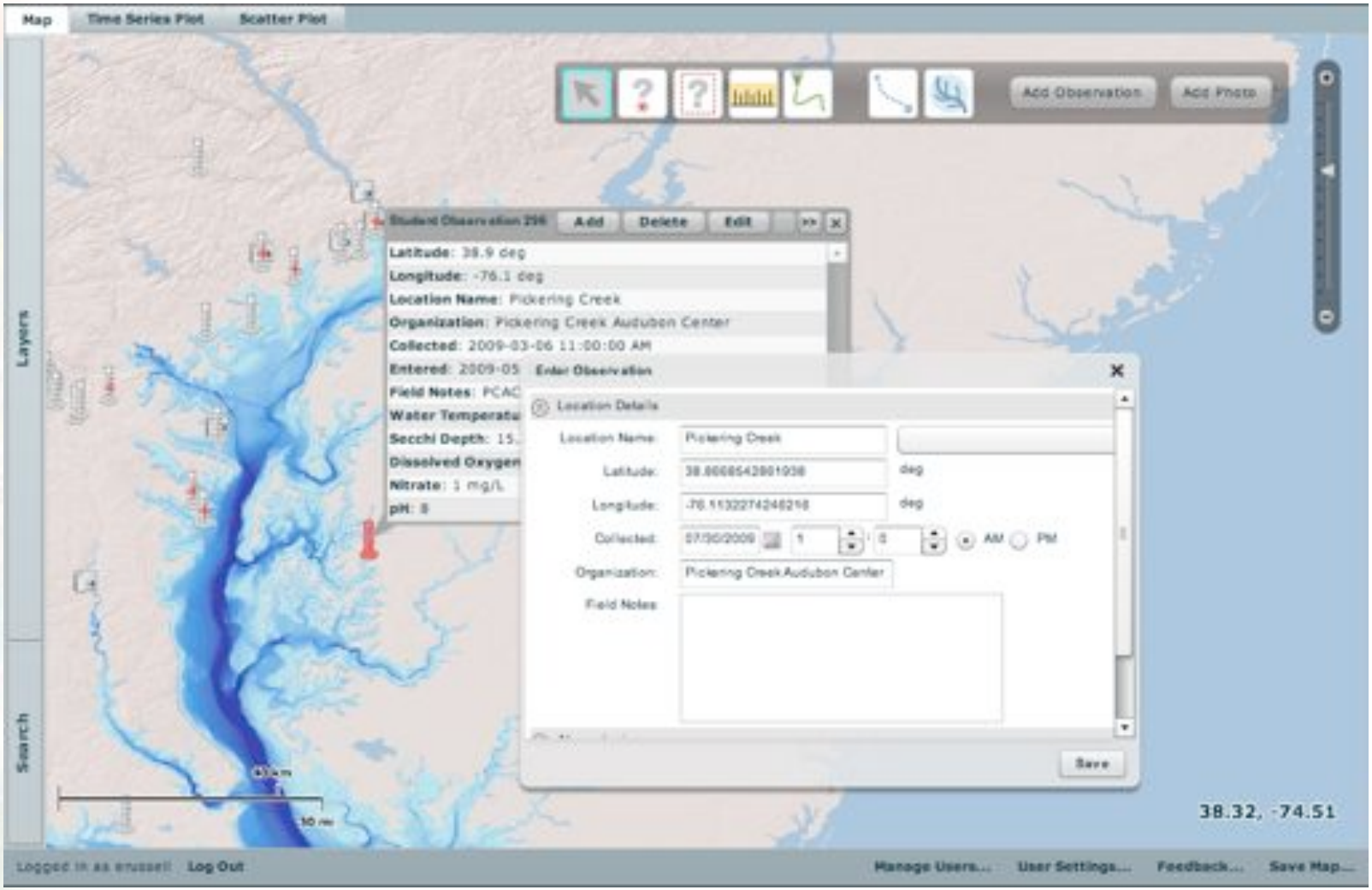
# Data Collection: Observations

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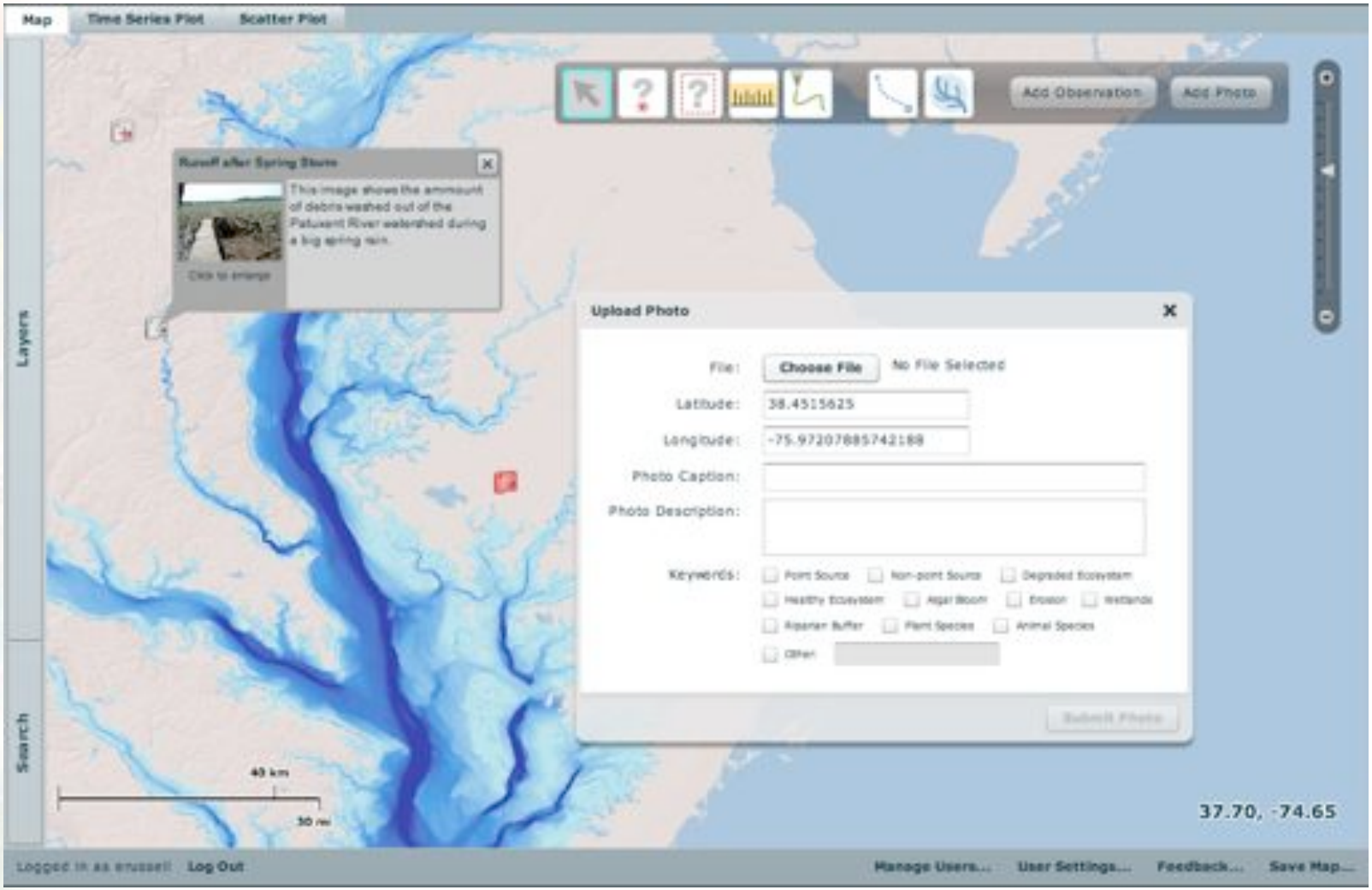
# Data Collection: Pictures

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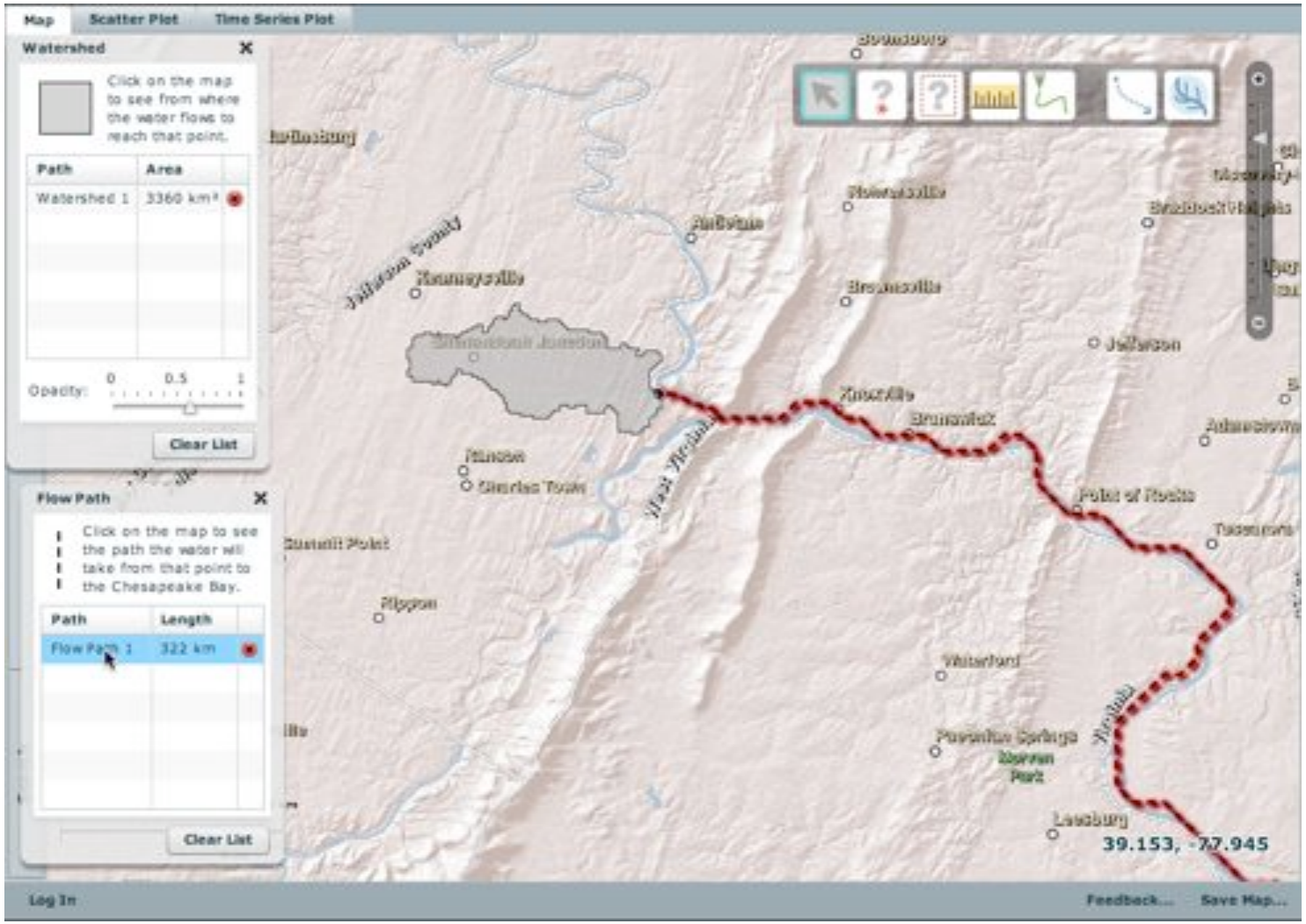
# Analysis: Geoprocessing

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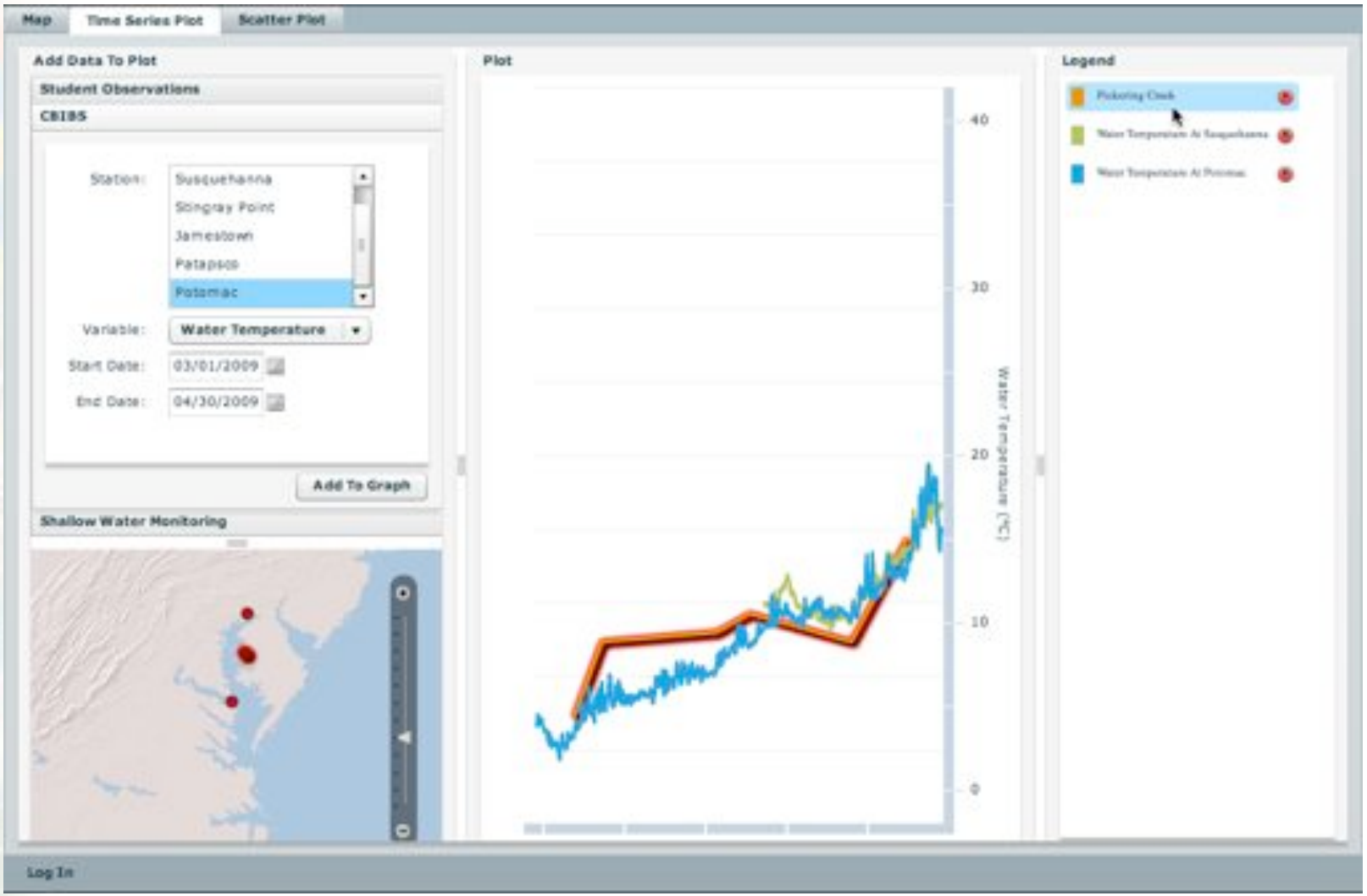
# Analysis: Time Series Plot

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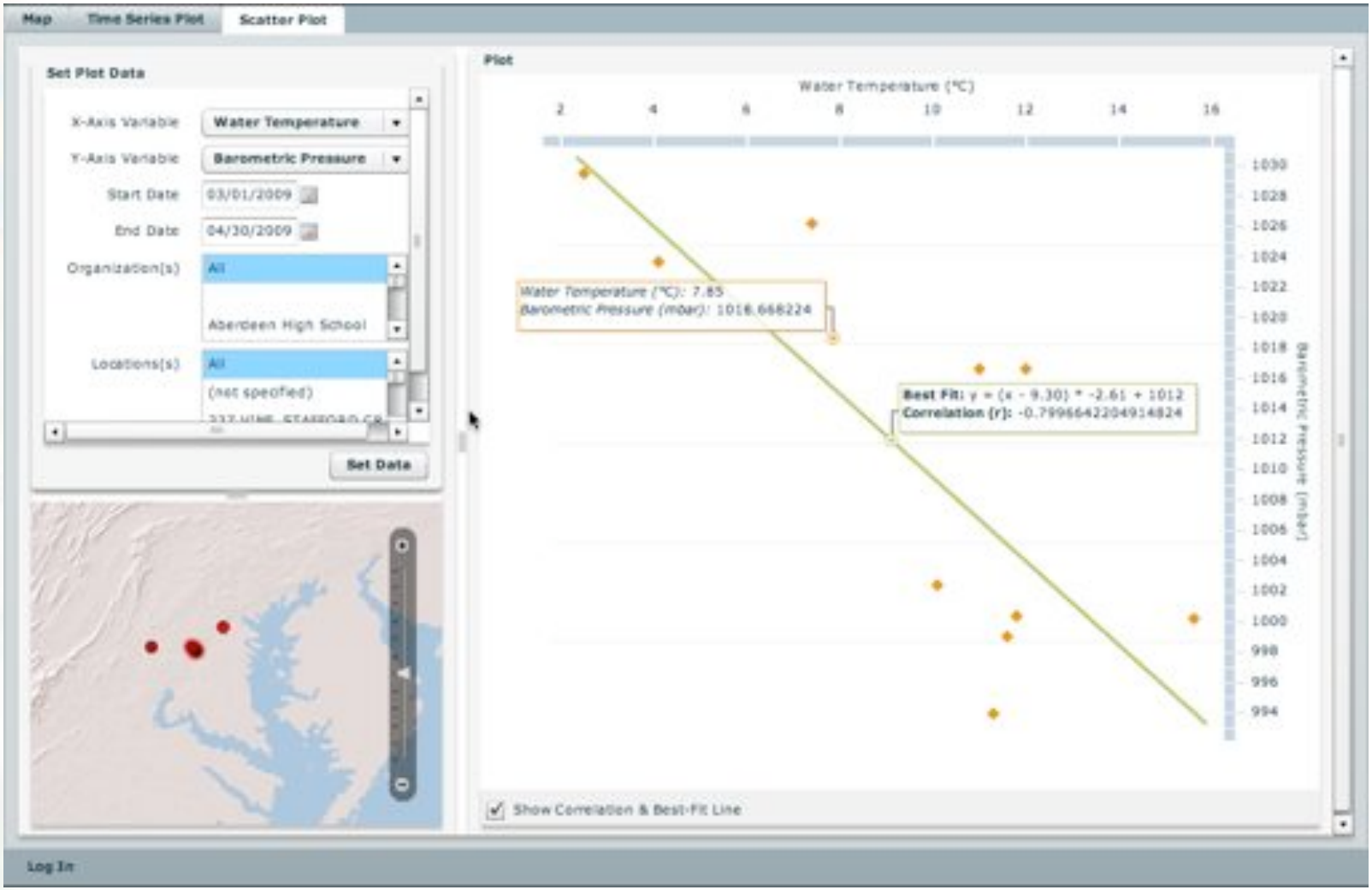
# Analysis: Scatter Plot

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# What's Next for FieldScope?

- Side-by-side Map Comparison
- Better time-series analysis
- Interface to server-side modeling
- Access to more long-term datasets via web services
  - NWIS stream discharge
  - World Monthly Surface Station Climatology

# Long Term Plans

- Community Tools
  - Sharing maps and data across classrooms and schools
  - Building communities around location, or around similar activities in different locations
  - 6mo-1yr out
- Instance Creation Tools
  - Enable users to create their own instance of FieldScope, (almost) as easily as creating a Google group (for example)
  - 3yr-5yrs out

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# More Information

- www.fieldscope.us

- Anyone can see and analyze data as a guest. To upload data, click “login” and “new user” to request a login. You will be asked about your school name and how you learned about the project.

- For more information, contact Kathleen Schwille kschwill@ngs.org or Eric Russell erussell@ngs.org

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# Pilot Partners

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CHESAPEAKE BAY FOUNDATION
*Saving a National Treasure*

NOAA CHESAPEAKE BAY

ESRI

Educators in Maryland, Virginia, and Washington, DC

verizon

**Thinkfinity.org**
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# Technical Data

- ESRI ArcGIS Server 9.3
  - ArcGIS Flex API 1.2
- WebORB RPC Server
  - MS SQL Server 2008
- MS ASP.Net

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